

18/633013

5658759

0.G. FIG.	1
CLASS	Y55 69.1
APPROVED	BY
DATE (2000)	

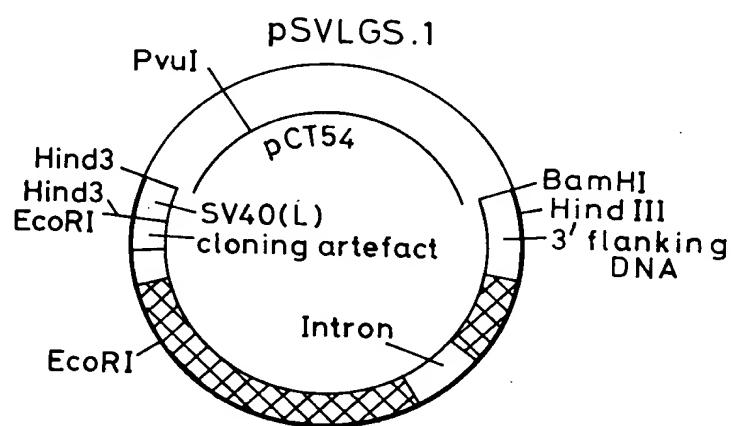


Fig. 1

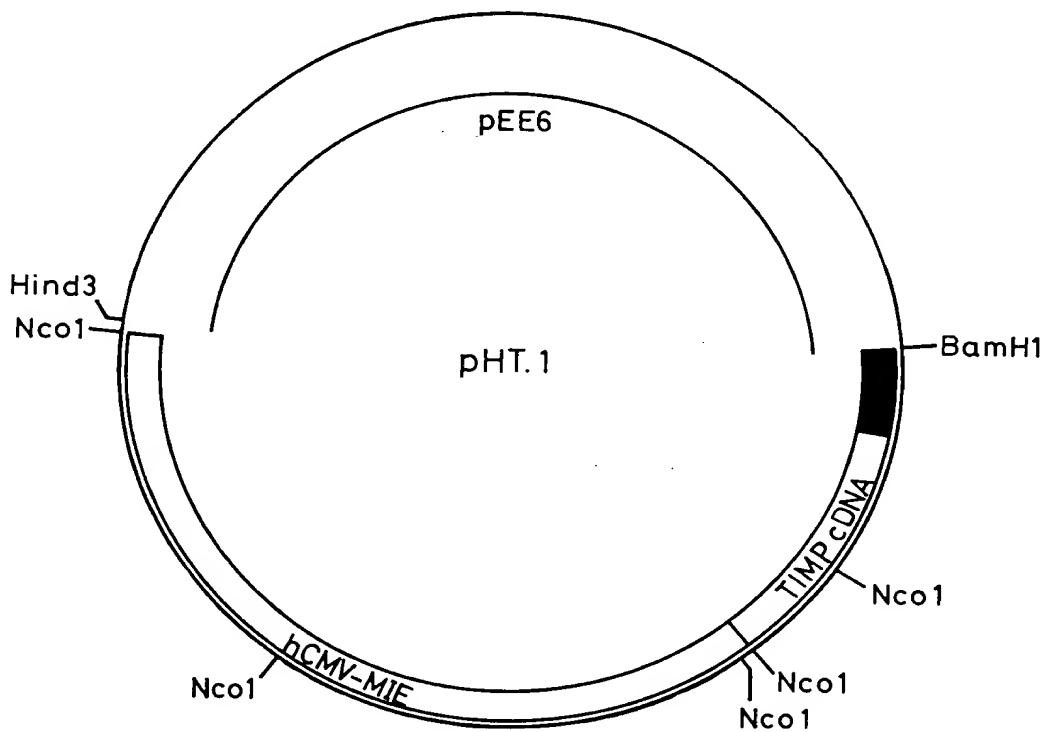


Fig. 2

APPROVED	O.C. H.C.	
BY	CLASS	SUBCLASS
PRACTISER		

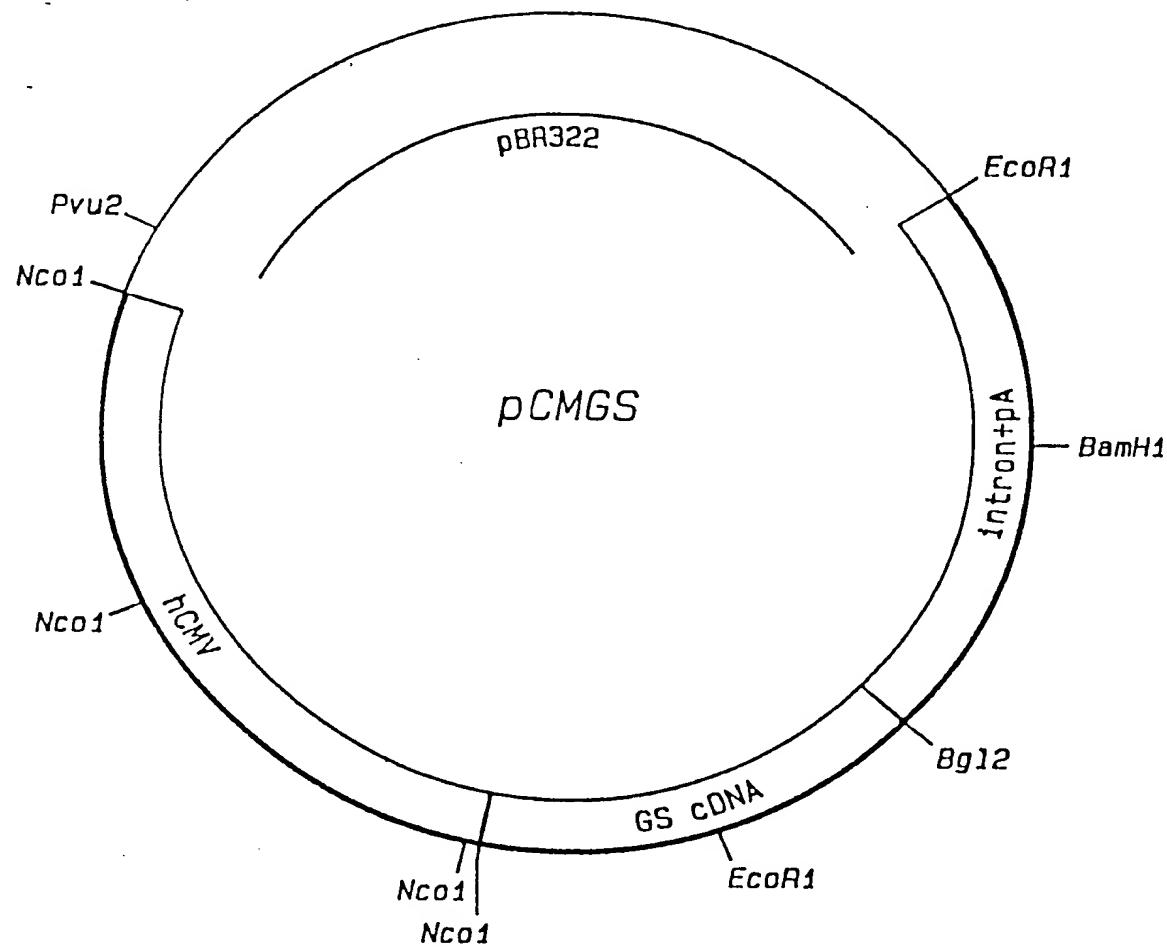


Fig. 3

APPROVED	O. G. FIG.	CLASS	SUBCLASS
BY	DRAFTSMAN		

DNS	p	T	AM
sct	s	t	f1
aoy	t	3	1u
111	1	2	31
//			
1	CCATGGTGTCAAGGACGGTGACTGCAGTGAATAATAAAATGTGTGTTGTCCGAAATACG		
	GGTACACAGTTCCCTGCCACTGACGTCACTTATTACACACAAACAGGCTTATGC		60
61	-CGTTTGAGATTCTGTCGCCGACTAAATTGATGTCGCGCGATAGTGGTGTATGCCG		
	GCAAAACTCTAAAGACAGCGGCTGATTAAAGTACAGCGCTATCACCAACAAATAGCGGC		120
	C		
	l		
	a		
	1		
121	ATAGAGATGGCGATATTGGAAAATCGATATTGAAAATATGGCATATTGAAAATGTCG		
	TATCTCTACCGCTATAACCTTTAGCTATAAACTTTATACCGTATAACTTTACAGCG		180
	E		
	C		
	O		
	R		
	V		
181	CGATGTGAGTTCTGTGTAAGTATCGCCATTTCGAAAGTGTGTTGGGCATAC		
	GCTACACTCAAAGACACATTGACTATAGCGGTTAAAGGTTTCACTAAAACCCGTATG		240
	E		
	C		
	O		
	R		
	V		
241	GCGATATCTGGCGATAGCGGCTTATCGTTACGGGGATGGCGATAGACGACTTGGT		
	CGCTATAGACCGCTATGCCGAATATAGCAAATGCCCTACCGCTATCTGCTGAAACCA		300
301	GACTTGGCGATTCTGTGTCGAAATATCGCAGTTGATAGGTGACAGACGATAT		
	CTGAACCCGCTAAGACACACAGCGTTATAGCGTCAAAGCTATATCCACTGTCTGCTATA		360
	C BH	N C	
	f aa	s l	
	r le	i a	
	1 11	1 1	
	/		
361	GAGGCTATATGCCGATAGAGGGACATCAAGCTGGCACATGGCCAATGCATATCGATCT		
	CTCCGATATAGCGGCTATCTCCGCTGTAGTCGACCGTGTACCGGTTACGTATAGCTAGA		420

Fig. 4A

0. C. FIG.	CLASS	SUBCLASS
BY	CRAF (LHM)	

S C BH
s f aa
p r le
1 1 11

/

421 ATACATTGAATCAATATTGGCCATTAGCCATATTATTGATTGGTTATATAGCATAAATCA
TATGTAACTTAGTTATAACCGGTAACTGGTATAATAAGTAACCAATATATCGTATTTAGT 480
S C BH
s f aa
p r le
1 1 11

/

481 ATATTGGCTATTGGCCATTGCATACGTTGTATCCATATCATAATATGTACATTTATATTG 540
TATAACCGATAACCGGTAACTGTATGCAACATAGGTATAGTATTACATGTAAATATAAC

H
i M S
n m p
c e e
2 1 1

541 GCTCATGTCCAACATTACCGCCATGTTGACATTGATTATTGACTAGTTATTAATAGTAAT 600
CGAGTACAGGTTGTAATGGCGGTACAACGTAACTAATAACTGATCAATAATTATCATTAA
CAATTACGGGGTCATTAGTTCATAGCCCATAATATGGAGTTCCCGGTTACATAACTTACGG
601 GTTAATGCCCAAGTAATCAAGTATCGGGTATATACCTCAAGGCGCAATGTATTGAATGCC 660

B A A
g h a
1 a t
1 2 2

661 TAAATGGCCCCGCTGGCTGACCGCCCAACGACCCCCGGCCATTGACGTCAATAATGACGT 720
ATTTACCGGGCGGACCGACTGGCGGGTTGCTGGGGGGTAACTGCAGTTATTACTGCA

A A
h a
a t
2 2

721 ATGTTCCCATACTAACGCCAATAGGGACTTTCCATTGACGTCAATGGGTGGAGTATTTAC 780
TACAAGGGTATCATTGCGGTTATCCCTGAAAGGTAACTGCAGTTACCCACCTCATAAATG

B N
g d
1 e
1 1

781 GGTAAACTGCCCACTTGGCAGTACATCAAGTGTATCATATGCCAAGTACGCCCCCTATTG 840
CCATTGACGGGTGAACCGTCATGTAGTTACATAGTACGGTTCATGCGGGGGATAAC

Fig. 4 B

0.6. FIG.	SUBCLASS
APPROVED	CLASS
BY	REGISTRATION NO.

A A
h a
a t
2 2

B
g
l
1

841 ACGTCAATGACGGTAAATGGCCCGCTGGCATTATGCCAGTACATGACCTTATGGGACT
TGCAGTTACTGCCATTACCGGGCGGACCGTAATACGGGTACTGTACTGGAATACCCCTGA 900

S
n
a
B
1

DNS
sct
aoy
111
//

901 TTCCTACTTGGCAGTACATCTACGTATTAGTCATCGCTATTACCATGGTATGCGGTTTT
AAGGATGAACCGTCATGTAGATGCATAATCAGTAGCGATAATGGTACCACTACGCCAAAA 960
GGCAGTACATCAATGGCGTGGATAGCGGTTGACTCACGGGGATTTCCAAGTCTCCACC
961 CCGTCATGTAGTTACCCGCACCTATGCCAAACTGAGTGCCCTAAAGGTTAGAGGTGG 1020

A A
h a
a t
2 2

B
a
n
1

1021 CCATTGACGTCATGGGAGTTGTTGGCACCAAAATCAACGGGACTTTCCAAAATGTC
GGTAACTGCAGTTACCCCTAAACAAAACCGTGGTTAGTTGCCCTGAAAGGTTTACAG
GTAACAACCTCGCCCCATTGACGCAAATGGCGGTAGCGTGTACGGTGGGAGGTCTATA
1081 CATTGTTGAGGCAGGGTAACTGCAGTTACCCGCCATCCGCACATGCCACCCCTCCAGATAT 1140

BH
BssS
apia
n1Ac
2211
///

G A
s h
u a
1 2

1141 TAAGCAGAGCTCGTTAGTGAACCGTCAGATGCCCTGGAGACGCCATCCACGCTTTTG
ATTCGTCTCGAGCAAATCACTTGGCAGTCTAGCGGACCTCTCGCGTAGGTGCGACAAAAC 1200

B
b
v
2

D BCGsSX
s gfdpam
a lriBca
1 112223
///

1201 ACCTCCATAGAAGACACCGGGACCGATCCAGCCTCCGGCCGGAACGGTGCATTGGAA
TGGAGGTATCTCTGTGGCCCTGGCTAGGTGGAGGCGCCGGCCCTGCCACGTAACCTT 1260

Fig. 4C

Q.G. FIG.	SUCLASS
CLASS	
EX	ALPHABET

CGCGGATTCCCCGTGCCAAGAGTGACGTAAGTACCGCCTATAGAGTCTATAGGCCACCC
 1261-----+-----+-----+-----+-----+-----+-----+-----+ 1320
 GCGCCTAAGGGGCACGGTCTCACTGCATTGAGGATATCTCAGATATCCGGGTGGG

B	N
Ss	N ss
tt	s pp
yX	i Hh
11	1 11
	/

CCTTGGCTTCTTATGCATGCTATACTGTTTTGGCTGGGTCTATACACCCCCGCTTCC
 1321-----+-----+-----+-----+-----+-----+-----+ 1380
 GGAACCGAAGAATACGTACGATATGACAAAAACCGAACCCCCAGATATGTGGGGCGAAGG

E	
S	
p	
1	

TCATGTTATAGGTGATGGTATAGCTTAGCCTAGGTGTGGTTATTGACCATTATTGAC
 1381-----+-----+-----+-----+-----+-----+-----+ 1440
 AGTACAATATCCACTACCATATCGAATCGGATATCCACACCCAATACTGGTAATAACTG

P	
f	
1	
M	
1	

CACTCCCCTATTGGTGACGATACTTCCATTACTAATCCATAAACATGGCTTTGCCACA
 1441-----+-----+-----+-----+-----+-----+-----+ 1500
 GTGAGGGGATAACCACTGCTATGAAAGGTATGATTAGGTATTGTACCGAGAACGGTGT

E	
C	
O	
5	
7	

ACTCTCTTATTGGCTATGCCAATACACTGTCCTTCAGAGACTGACACGGACTCTGTA
 1501-----+-----+-----+-----+-----+-----+-----+ 1560
 TGAGAGAAATAACCGATATACGGTTATGTGACAGGAAGTCTGACTGTGCCTGAGACAT

E	
C	
O	
3	
1	

TTTTTACAGGATGGGTCTCATTATTACAAATTACATACACACCACCGTCC
 1561-----+-----+-----+-----+-----+-----+-----+ 1620
 AAAAATGTCCTACCCAGAGTAAATAATAATGTTAAGTGTATGTTGGTGGCAGG

B		X		A		A
S		h		v		f
p		o		a		1
1		2		1		3
2						

CCAGTGCCCGCAGTTTATTAAACATAACGTGGATCTCCACGCGAATCTCGGGTACGT
 1621-----+-----+-----+-----+-----+-----+-----+ 1680
 GGTACGGCGTAAAAATAATTGTATTGACCCCTAGAGGTGCGCTTAGAGCCATGCA

Fig. 4D

08/633013

O.G. FIG.	
CLASS	SUBCLASS

BY
PROFESSOR

B	B	B
S	Bs	Bs
p	ap	ap
M	n1	n1
2	22	22
	/	/
1681	GTTCGGACATGGGCTCTTCTCGGTAGCGGCGGAGCTTCTACATCCGAGCCCTGCTCCC -CAAGGCCTGTACCCGAGAAGAGGCCATGCCGCCTCGAAGATGTAGGCTCGGGACGAGGG	1740
G		H
s		a
u		e
1		1
1741	ATGCCCTCCAGCGACTCATGGTCGCTCGGAGCTCCTGCTCTAACAGTGGAGGCCAGAC -TACGGAGGTCGCTGAGTACCAAGCGAGCCGTCAGGAACGAGGATTGTCACCTCCGGTCTG	1800
D		
s		
a		
1		
1801	TTAGGCACAGCACGATGCCAACCAACCAGTGTGCCGCACAAGGCCGTGGCGGTAGGGT -AATCCGTGTCGTGCTACGGGTGGTGGTCACACGGCGTGTCCGGCACCGCCATCCCA	1860
BH	N	
ABsgS	s	A B
vapia	p	f b
an1Ac	B	l v
12211	2	2 2
///		
1861	ATGTGTCTGAAAATGAGCTGGGGAGCAGCTTGACCGCTGACGCATTGGAAGACTTA -TACACAGACTTTACTCGAGCCCTGCCCGAACGTGGCGACTGCGTAAACCTTCTGAAT	1920
N	N	
s	sP	
p	pV	
B	Bu	
2	22	
	/	
1921	AGGCAGCGGCAGAAGAAGATGCAGGCAGCTGAGTTGTTGTGATAAGAGTCAGAGG -TCCGTCGCCGTCTTCTACGTCCGTGACTCAACAAACACAAGACTATTCTCAGTCTCC	1980
H		S
iH		
np		c
ca		a
21		1
	/	
1981	TAACCTCCGTTGCGGTGCTGTTAACGGTGGAGGGCAGTGTAGTCTGAGCAGTACTCGTTS -ATTGAGGGCAACGCCACGACAATTGCCACCTCCCGTCACATCAGACTCGTCATGAGCAAC	2040

Fig. 4E

08/633013

BY	CLASS	0.6 FIG.

B B
S S
S S
H H
2 2

DNS
sct
aoy
111
//

CTGCCGCGCGGCCACCAAGACATAATAGCTGACAGACTAACAGACTGTTCCCTTCCATTGG //
2041-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+ 2100
GACGGCGCGCGCGGGTCTGTATTATCGACTGTCTGATTGTCTGACAAGGAAAGGTACCG

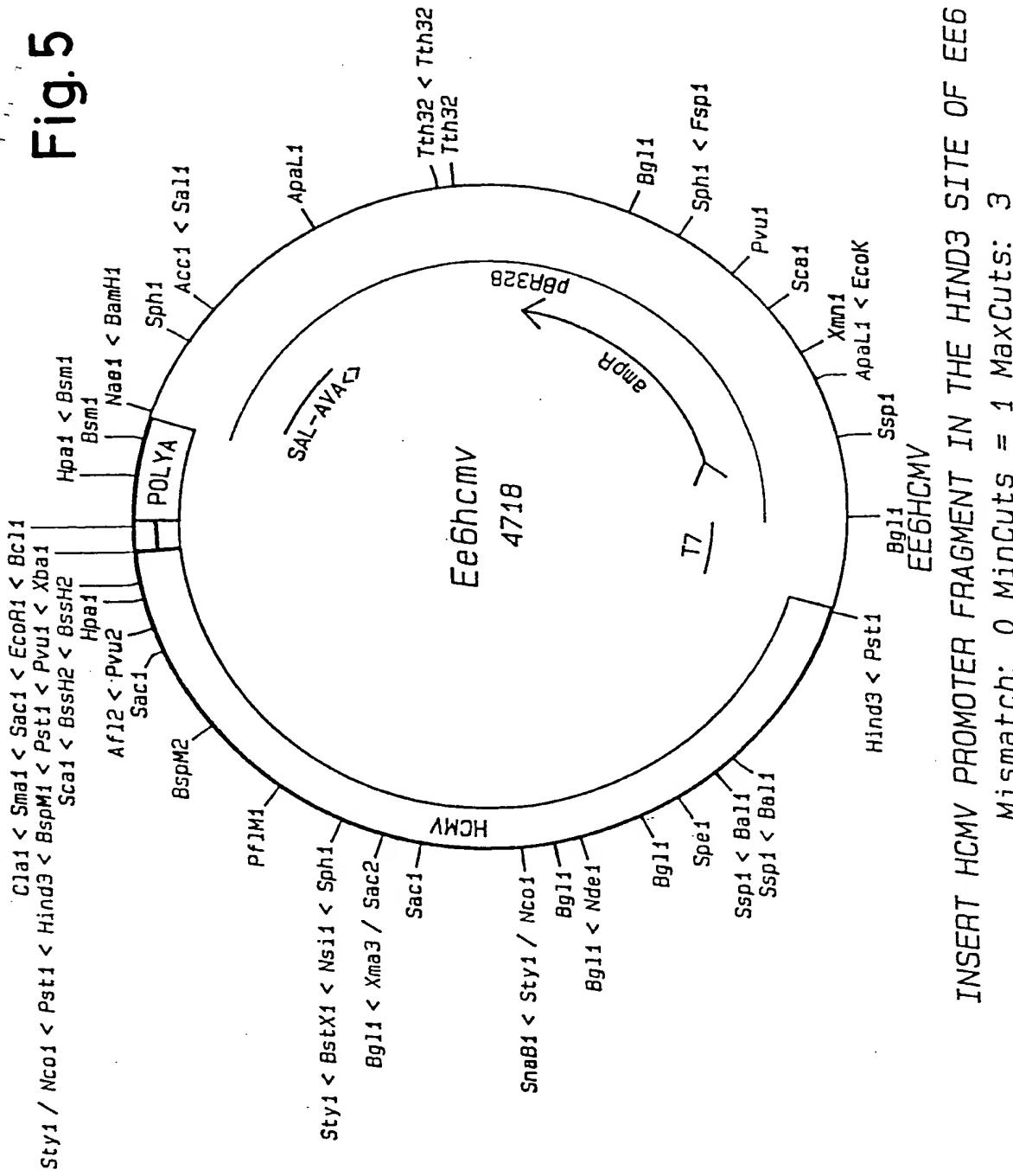
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P           DNS
s           sct
t           aoy
1           111
                         // NcoI
CAGTCACCGTCCTTGACACCATG
-----+-----+
GTCAGTGGCAGGAACGTGTG

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Fig. 4F

Fig. 5



INSERT HCMV PROMOTER FRAGMENT IN THE HIND3 SITE OF E6

Mismatch: 0 MinCuts = 1 MaxCuts: 3